Michał Grudzień

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EDUCATION	
2024-now	 Ecole Polytechnique Fédérale de Lausanne(EPFL): EDIC PhD in Computer Science Working on LLM and optimization supervised by prof. Martin Jaggi
2023-2024	 University of Oxford MA: Mathematics & Computer Science Relevant Coursework:
	 Computer Vision, Theories of DL, Geometric DL, Graph Representation Learning, Stochastic Differential Equation
	 Dissertation on quantization of LLM supervised by Prof. Jakob N. Foerster and Prof. Peter Richtarik.
2020–2023	University of Oxford BSc: Mathematics & Statistics - Top 5 Ranking
	• Top Ranking: Consistently performed exceptionally well, achieving an overall top 5 ranking out of 42 students during the Bachelor's degree program.
	 Relevant Coursework: Statistical Machine Learning, Probability Measure and Martingales, Statistical
	 Inference, Numerical Analysis, Complex Analysis, Simulation and Statistical Programming, Graph Theory, Functional Analysis, Linear Algebra, Integration Dissertation supervised by Professor Jakob N. Foerster.
2020-2024	Palgrave Brown Scholarship (2020-2024):
	• This highly competitive scholarship is granted by Oxford to exceptional students, with only one award available for Eastern Europe.
ACHIEVEME	
2024	Co-authored a paper with Prof. Schmidhuber- "Highway Reinforcement Learning" <u>Paper</u>
2023	1st Author Publication at AISTATS-2023- "Can 5th Generation Local Training Methods Support Client Sampling? Yes!" <u>Paper</u> / <u>FLOW seminar</u> / <u>Slides</u>
	1st Author Paper at FL-ICML-2023- "Improving Accelerated Federated Learning with
	Compression and Importance Sampling." <u>Paper</u>
2018-2019	National Mathematical Olympiad – Laureate title and top 20
2018	Physics Olympiad - Semi-finals
2016-2017	Junior Mathematical Olympiad - Laureate title and top 20
EXPERIENCE	
Summer	Huawei AI Research intern at London
2024	• Focusing on continuous learning settings for large language models (LLM s) and on fine-tuning to a new task without forgetting a previous task.
Summer	KAUST Research Internship with Prof. Jürgen Schmidhuber
2023	• Investigated novel applications of NLP/LLM , including ChatGPT, for addressing Reinforcement Learning challenges.
-	 Co-authored a paper that advances credit assignment techniques in function value iteration, a fundamental component of Reinforcement Learning.
Summer	KAUST Research Internship with Prof. Peter Richtarik
2022	 Developed and analysed "5GCS," a state-of-the-art method for accelerated communication with local training and client sampling support.
	 Completed Prof. Richtarik's comprehensive "SGD" course covering the latest stochastic gradient-based optimization methods in various convex settings.
2019	IT FOR SHE [Volunteer] - Robotics and Programming Workshops
	• Designed workshops to combat gender inequality in STEM and promote women as computer science specialists.
	• Organised and conducted 20 hours of workshops in programming, robotics, and new technologies for underprivileged children in rural areas.
MISCELLANI	
IT	Programming languages: Python, C++, LaTex, MATLAB, R
Soft skills	Top soft skills: Acting on feedback, communication, and being a fast learner.